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OSA -1253 -68

25X1A

2 April 1968

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Attention:

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Subject: Proposal 8-H-153
dated 2 April 1968

Reference: (a) Contract SA-5304, Work Order No. 3, Item No. 2

Enclosure: (1) Proposed System Course Outline (U)
(2) Proposed Test Cart Course Outline (U)

Dear Sir:

25X1A

herewith submits its proposal 8-H-153 for informal training to be conducted at Davis Montham Air Force Base commencing 22 April 1968. The program will consist of two (2) twenty (20) hour courses to be conducted over a five (5) day period. The training outline for system GHG 1700, submitted as enclosure (1), does not include provisions for instruction of new techniques currently being developed. However, a brief discussion of revisions will be held at the conclusion of this course. One week of test cart instruction, required under reference (a), to be held the week of 29 April 1968 will follow the outline of enclosure (2). The actual school may not follow (to the letter) the enclosures, however, all subject matter listed will be covered.

This proposal is offered on a firm fixed basis in the amount of \$6,191 and is good for a period of sixty (60) days.

THIS DOCUMENT CONTAINS INFORMATION AFFECTING
THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN
THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C.
SECTIONS 793 AND 794. ITS TRANSMISSION OR THE
REVELATION OF ITS CONTENTS IN ANY MANNER TO AN
UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

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This proposal is based on the U. S. Government providing the following:

- (1) Suitable space for classroom
- (2) Suitable bench space for system display and tests
- (3) Two (2) systems, GHG 1700
- (4) One (1) Test Cart, GPG 402 MKI
- (5) Aircraft for one (1) day

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Technical questions relating to this proposal should be referred to [REDACTED] at [REDACTED], extension 2318. Inquiries pertaining to contractual matters should be directed to [REDACTED] at [REDACTED]

Very truly yours,

25X1A

[REDACTED] 25X1A

Manager, [REDACTED] Special Systems

25X1A

Approved:

25X1A

[REDACTED] Director and General Manager

25X1A Copy to:

[REDACTED]

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5th Day

0800	0845	Regulator A and B circuit boards function, brief description
0900	0945	Pilots control box, A/C installation cable runs, VSWR and attenuation measurements
1000	1045	Test equipment philosophy, required equipment, methods of testing
1100	1130	Lab demonstration of test methods
1300	1345	Regulator A and B circuit boards function, brief description
1400	1445	Pilots control box, A/C installation cable runs, VSWR and attenuation measurements
1500	1545	Test equipment philosophy, required equipment, methods of testing
1600	1630	Lab demonstration of test methods

PROPOSED SYSTEM COURSE OUTLINE

1st Day

0800	0845	Microwave chain, brief discussion each item couplers, filters, TWT's, R.F. signal flow
0900	0945	Video circuit board, function, signal flow, brief circuit description
1000	1045	Modulator, circuit board, function, signal flow, brief circuit description
1100	1130	Lab class and oral discussion and demonstration of microwave, video and modulator
1300	1345	Microwave chain, brief discussion each item couplers, filters, TWT's, R.F. signal flow
1400	1445	Video circuit board, function, signal flow, brief circuit description
1500	1545	Modulator, circuit board, function, signal flow, brief circuit description
1600	1630	Lab class and oral discussion and demonstration of microwave, video and modulator

2nd Day

0800	0845	TMT circuit board, function, signal flow, brief description
0900	0945	SSL circuit boards, function, signal flow, brief circuit description
1000	1045	Self test A and B, circuit boards, function, signal flow, brief circuit description
1100	1130	Lab class, demonstration of above modules, wave shapes, oral discussion
1300	1345	TMT circuit board, function, signal flow, brief description
1400	1445	SSL circuit boards, function, signal flow, brief circuit description
1500	1545	Self test A and B, circuit boards, function, signal flow, brief circuit description
1600	1630	Lab class, demonstration of above modules, wave shapes, oral discussion

3rd Day

0800	0845	RBT/AMT function, signal flow, brief description
0900	0945	ILT circuit board function, signal flow, brief description
1000	1045	Tie-in of all circuit boards with demonstration, power requirements
1100	1130	Lab work, demonstration
1300	1345	RBT/AMT function, signal flow, brief description
1400	1445	ILT circuit board function, signal flow, brief description
1500	1545	Tie-in of all circuit boards with demonstration, power requirements
1600	1630	Lab work, demonstration

4th Day

0800	0845	Prime power requirements, control circuit board, flow chart
0900	0945	Power supplies, general, requiring protection, safety measures
1000	1045	Low voltage power supply, intermediate and high voltage supplies, brief description of each
1100	1130	Lab demonstration, voltage measurements maintenance and testing
1300	1345	Prime power requirements, control circuit board, flow chart
1400	1445	Power supplies, general, requiring protection, safety measures
1500	1545	Low voltage power supply, imtermediate and high voltage supplies, brief description of each
1600	1630	Lab demonstration, voltage measurements maintenance and testing

PROPOSED TEST CART COURSE OUTLINE

1st Day

0800	0845	Test equipment requirements, signal generators, power meters, oscilloscope, microwave components
0900	0945	Brief description of signal generator, frequency range, power outputs, operation and adjustments, precautions
1000	1045	Brief description of power meters, dynamic ranges, methods of use and adjustments, precaution
1100	1130	Demonstration of above units with student participation
1300	1345	Test equipment requirements, signal generators, power meters, oscilloscope, microwave components
1400	1445	Brief description of signal generator, frequency range, power outputs, operation and adjustments, precautions
1500	1545	Brief description of power meters, dynamic ranges, methods of use and adjustments, precaution
1600	1630	Demonstration of above units with student participation

2nd Day

0800	0845	System signal simulator, block diagram, function, brief circuit description, controls, adjustments
0900	0945	TWT amplifier, use of, function, brief circuit description, precaution
1000	1045	X-Y plotter, function, use of, demonstration
1100	1130	Student participation with demonstration of above units
1300	1345	System signal simulator, block diagram, function, brief circuit description, controls, adjustments
1400	1445	TWT amplifier, use of, function, brief circuit description, precaution
1500	1545	X-Y plotter, function, use of, demonstration
1600	1630	Student participation with demonstration of above units

3rd Day

0800	0845	System testing, operating parameters, brief discussion of each
0900	0945	Use of test cart, initial calibration
1000	1045	Special testing, VSWR measurements, frequency measurements
1100	1130	Oral discussion, questions and answers
1300	1345	System testing, operating parameters, brief discussion of each
1400	1445	Use of test cart, initial calibration
1500	1545	Special testing, VSWR measurements, frequency measurements
1600	1630	Oral discussion, questions and answers

4th Day

0800	0845	Interconnection test cart to system safety measures and precautions
0900	0945	Measurements by instructor of system operating parameters
1000	1045	Student measurements of system operating parameters
1100	1130	Oral discussion, questions and answers
1300	1345	Interconnection test cart to system safety measures and precautions
1400	1445	Measurements by instructor of system operating parameters
1500	1545	Student measurements of system operating parameters
1600	1630	Oral discussion, questions and answers

5th Day

Entire day devoted to student testing of system with use of cart at aircraft.